

WHAT IS CLAIMED IS:

1. A miniature air compressor comprising:

a motor having a shaft longitudinally extending therefrom;

a transmission device pivotally connected to the shaft of the
5 motor, the transmission device including a connector eccentrically
securely mounted to a free end of the shaft and a crank having a first
end pivotally connected to the connector and a second end opposite to
the first end of the crank;

a bracket securely mounted to the motor and having a
10 through hole defined therein;

a cylinder extending through the through hole in the bracket
and secured on the bracket, the cylinder having an open end allowing
the second end of the crank extending into the cylinder for compressing
the air in the cylinder and a close end opposite to the open end of the
15 cylinder, the cylinder having an inlet and an outlet respectively defined
in the close end thereof and extending to communicate with an inner
periphery of the cylinder;

a cover longitudinally mounted to the close end of the
cylinder, an input passage and an output passage respectively defined
20 in and extending through the cover, the input passage communicating
with the inlet in the close end of the cylinder and the output passage
communicating with the outlet in the close end of the cylinder; and

a valve sheet secured between close end of the cylinder and

the cover, the valve sheet including a first valve selectively closing the input passage when the second end of the crank is moved toward the cover and a second valve selectively closing the outlet in the close end of the cylinder when the second end of the crank is moved away from the close end of the cylinder.

2. The miniature air compressor as claimed in claim 1 further comprising a base member for supporting the motor and multiple absorbers mounted between the base member and the motor for absorbing the vibration and reducing the noise from the motor.

3. The miniature air compressor as claimed in claim 1, wherein the crank comprises a resilient valve longitudinally secured on the second end of the crank by a fastener.

4. The miniature air compressor as claimed in claim 1, wherein the cylinder comprises a first inclined stopper extending therefrom into the inlet to prevent the first valve of the valve sheet from overly wiggled in the inlet when the second end of the crank is moved away from the close end of the cylinder.

5. The miniature air compressor as claimed in claim 1, wherein the cover comprises a second inclined stopper extending therefrom into the output passage in the cover to prevent the second valve of the valve sheet from overly wiggled in the output passage in the cover when the second of the crank is moved toward the close end of the cylinder.